

23.4: Discussion

Discussion (30 points)

Write a minimum one-page (12 font, single spaced) discussion on the experiment conducted this week. **The assignment will be graded on completeness, clarity of the explanations and the meaningful integration of the collected and calculated data.** Correct grammar and appropriate format for the chemical formulae and chemical reactions is expected. **You may use the outline included at the end of this document on how to build your essay to address each category.**

1. Define saponification.
2. Why did you use a sand bath instead of a hot plate or Bunsen burner?
3. What would happen if you left your soap exposed to the air?
4. What is hard water?
5. What is tap water?
6. What is deionized water?
7. What is distilled water?
8. What is the difference between distilled, deionized, tap and hard water?
9. Which type of water would produce the most bubbles?
10. What is a micelle?
11. How does soap work in cleaning?
12. Which type of water would be the best for cleaning?
13. What is another experiment that you wish you would have done with soap?
14. At craft shows people often advertise that their soap is made without lye. What does that mean? Should you believe them?

Recommended discussion outline:

The concepts I used in this experiment were...

The most important aspect of this experiment was...

The purpose of the experiment was (Hint: it was not to make soap) ... By performing this experiment, I learned...

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